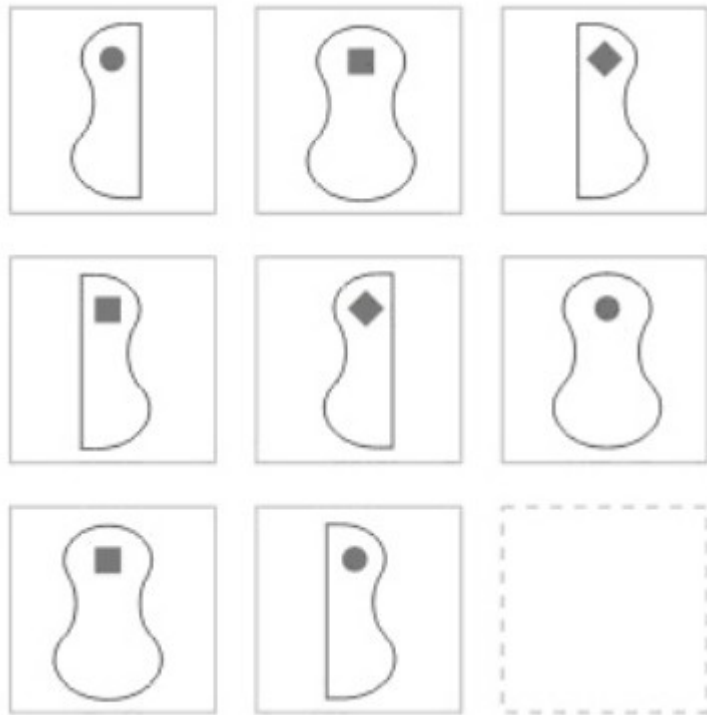
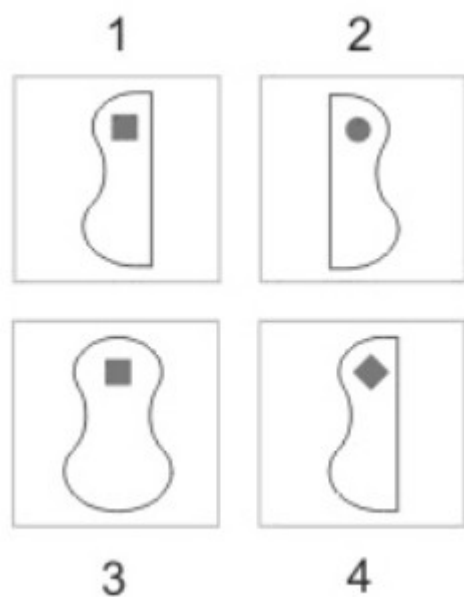


1. Выберите нужную фигуру из четырех пронумерованных.





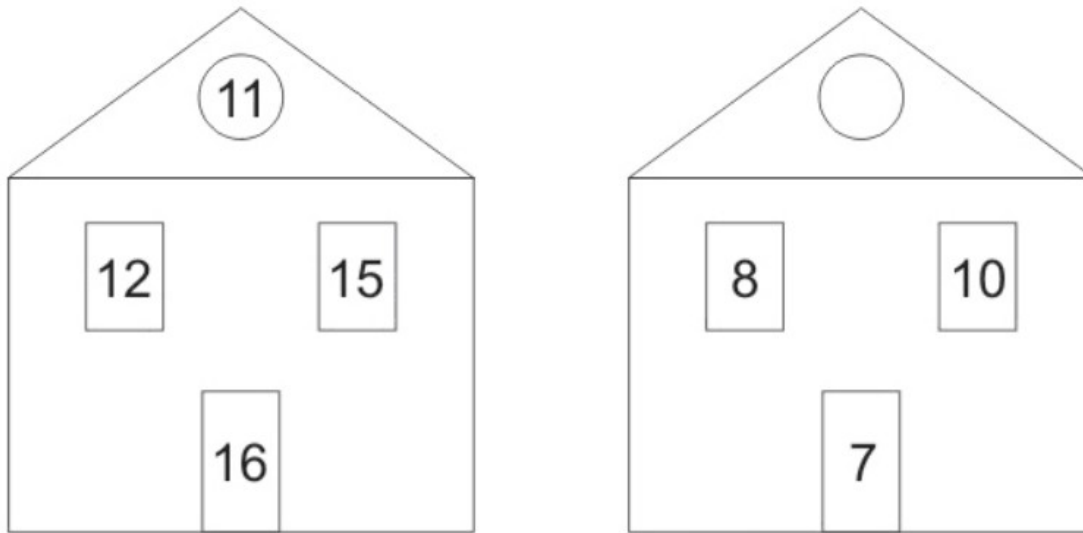
6. Вставьте недостающее число.

Фигура:

- ☐ №1
- ☐ №2
- ☐ №3
- ☒ №4

Javob:

2. Вставьте недостающее число.



Число: 11

3. Вставьте пропущенное число.

196 (25) 324

325 () 137

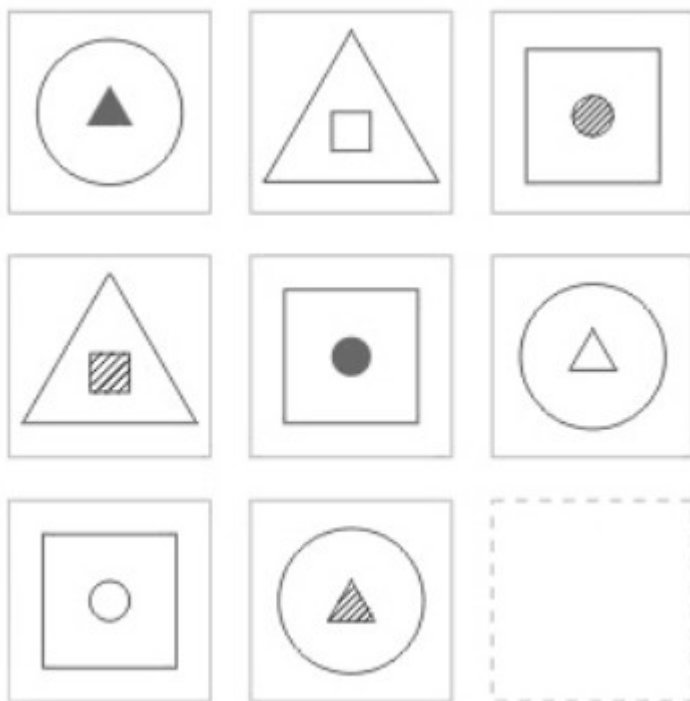
Число: 21

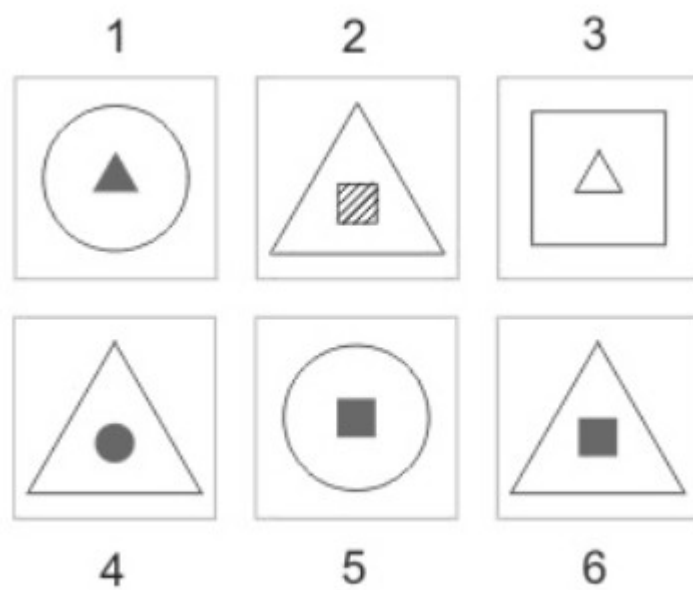
4. Продолжите ряд чисел.

18 10 6 4 ?

Число: 3

5. Выберите нужную фигуру из пронумерованных.

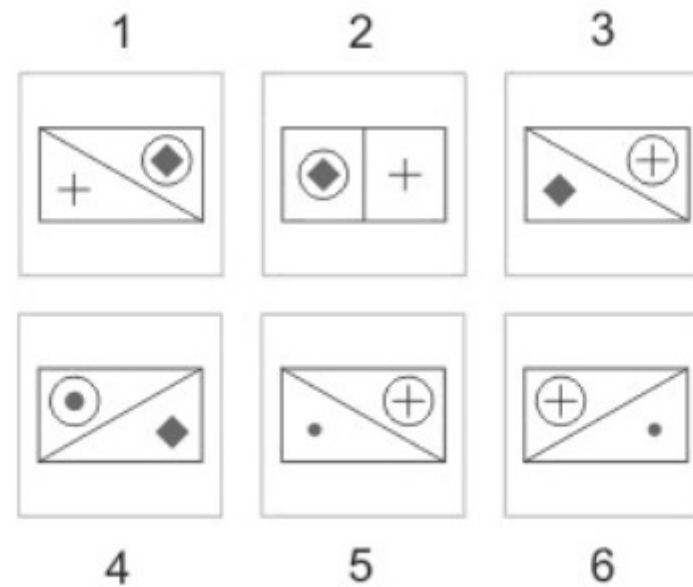
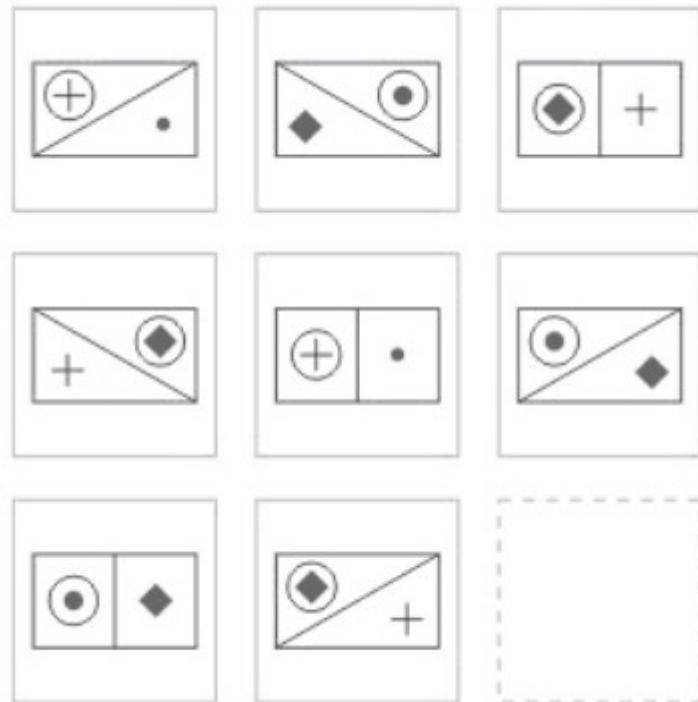




Фигура:

- ☐ №1
- ☐ №2
- ☐ №3
- ☐ №4
- ☐ №5
- ☒ №6

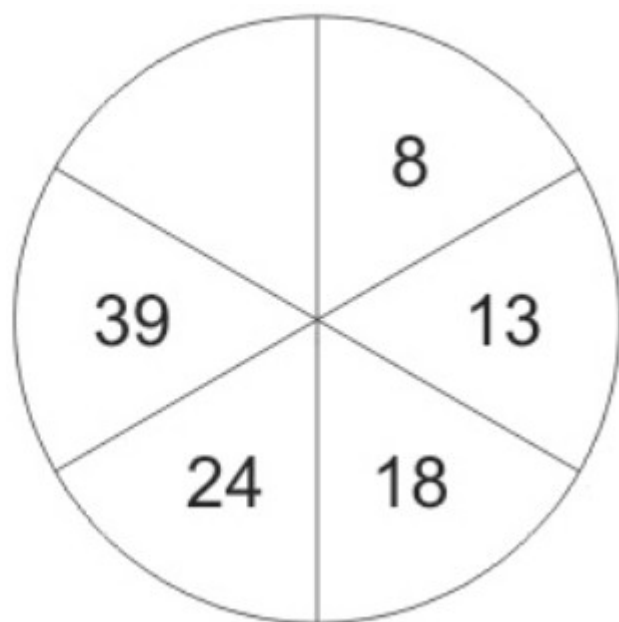
6. Выберите нужную фигуру из шести пронумерованных.



Фигура:

- ☐ №1
- ☐ №2
- ☐ №3
- ☐ №4
- ☒ №5
- ☐ №6

7. Вставьте пропущенное число.



Число: 54

8. Вставьте недостающее число.

4 9 20

8 5 14

10 3 ?

Число: 11

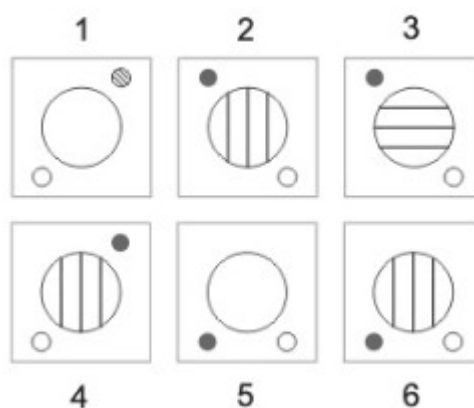
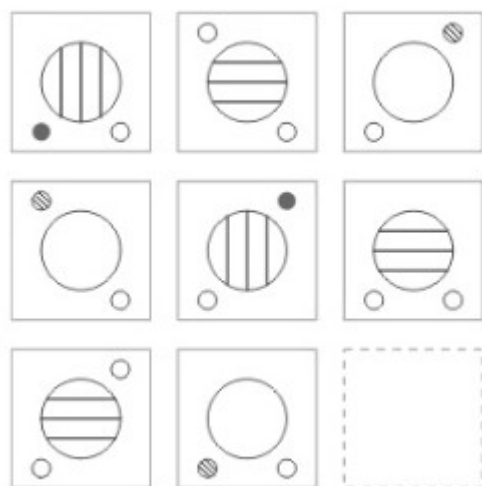
9. Вставьте недостающее число.

16 (27) 43

29 () 56

Число: 27

10. Выберите нужную фигуру из шести пронумерованных.



Фигура:

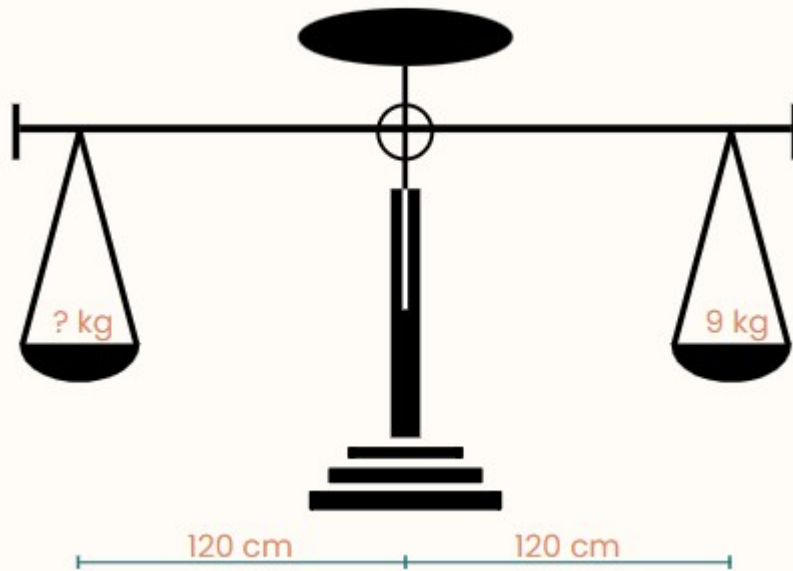
- ☐ №1
- ☒ №2
- ☐ №3
- ☐ №4
- ☐ №5
- ☐ №6

11. Вставьте пропущенную букву и пропущенное число.

1	В	5	
А	3	Д	

Буква: Ё
Число: 7

12.



Which number should replace the question mark?

a.

0.0

b.

9

c.

4.5

d.

19.5

e.

21.0

f.

1.5

Explanation

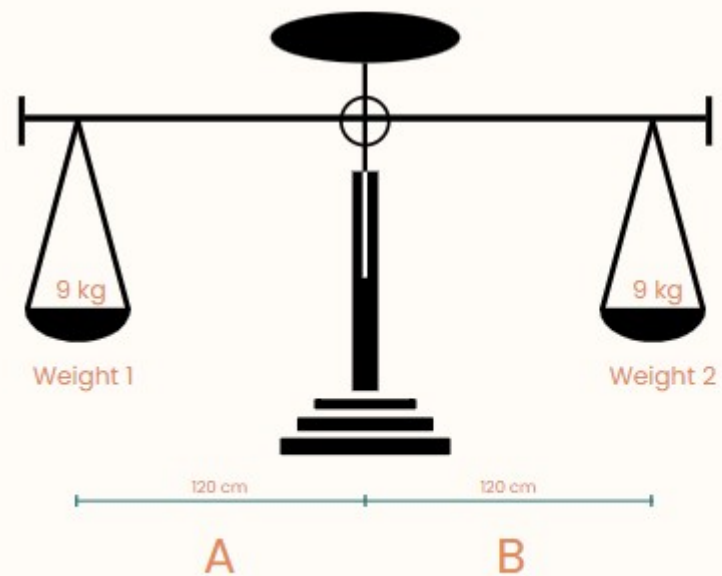
The scale is balanced. This is the case if the distances * weights are the same on both sides of the scale: $A * \text{weight 1} = B * \text{weight 2}$.

$$120 * ? = 120 * 9$$

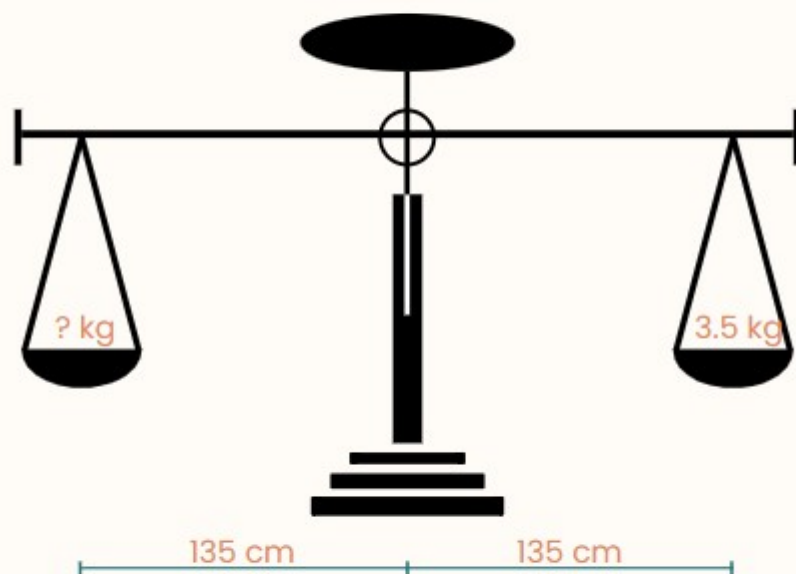
$$\Rightarrow 120 * ? = 1080$$

$$\Rightarrow ? = 1080 / 120$$

$$\Rightarrow ? = 9$$



Question 2



13.

Which number should replace the question mark?

a.

2.5

b.

3.5

c.

9.5

d.

10.0

e.

7.0

f.

8.5

Explanation

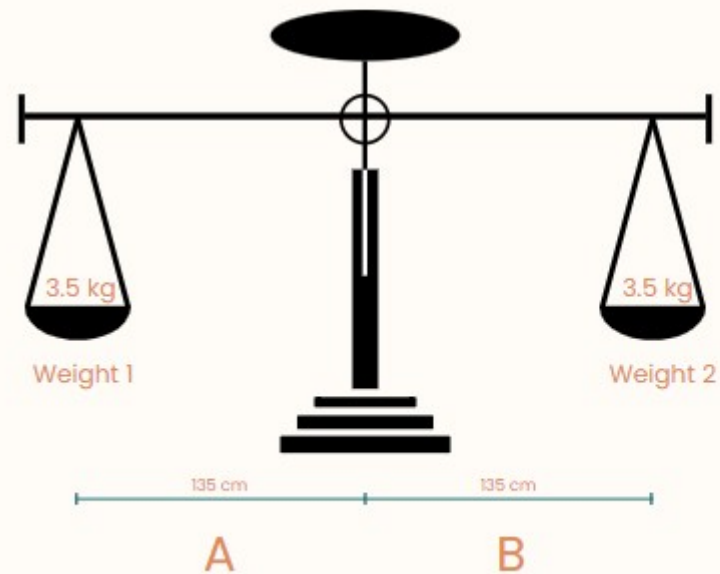
The scale is balanced. This is the case if the distances * weights are the same on both sides of the scale: $A * \text{weight 1} = B * \text{weight 2}$.

$$135 * ? = 135 * 3.5$$

$$\Rightarrow 135 * ? = 472.5$$

$$\Rightarrow ? = 472.5 / 135$$

$$\Rightarrow ? = 3.5$$

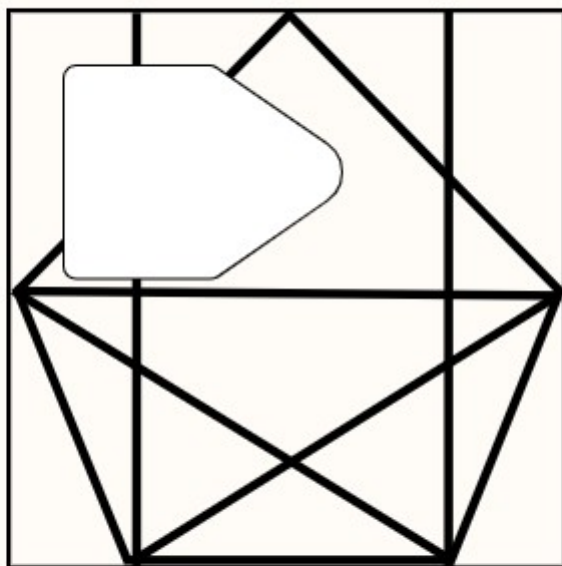


The scale is balanced. This is the case if the distances * weights are the same on both sides of the scale: $A * \text{weight 1} = B * \text{weight 2}$.

$$135 * ? = 135 * 3.5$$

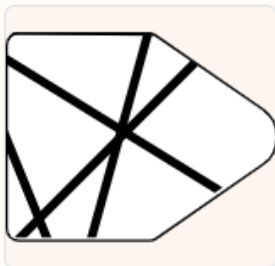
$$\Rightarrow 135 * ? = 472.5$$

$\Rightarrow ? = 472.5 / 135$
 $\Rightarrow ? = 3.5$

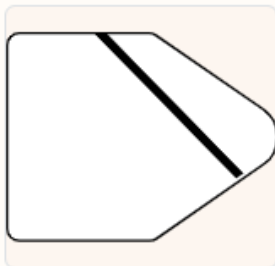


Which figure should replace the white area?

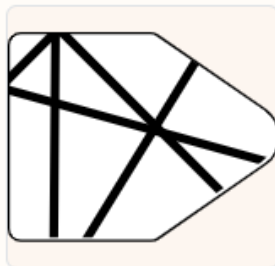
a.



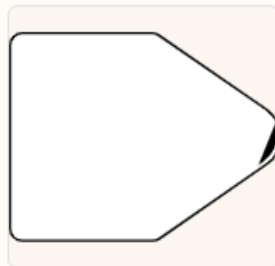
b.



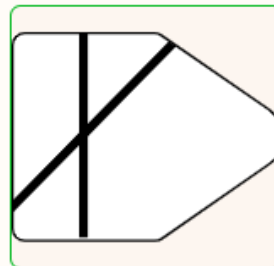
c.



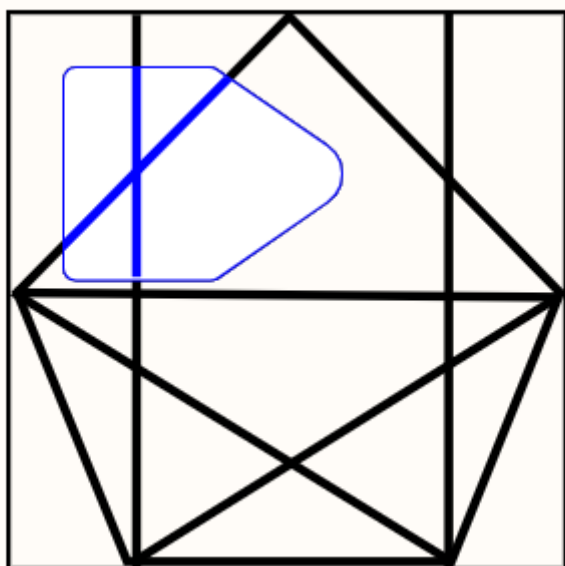
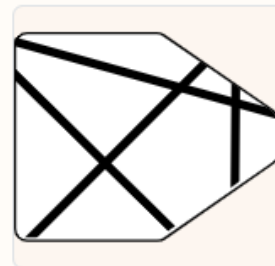
d.

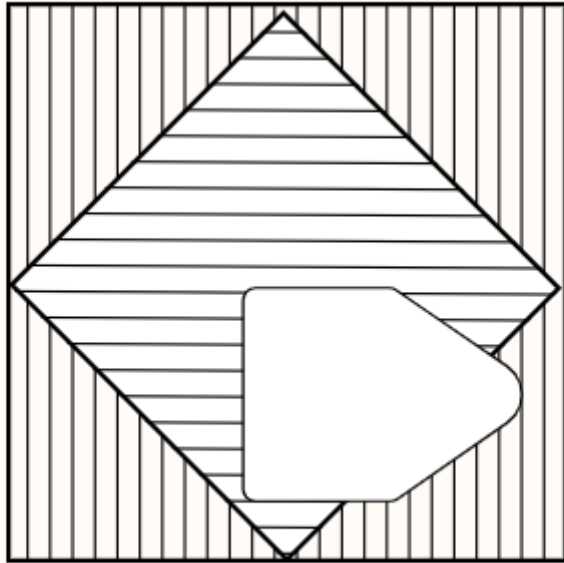


e.

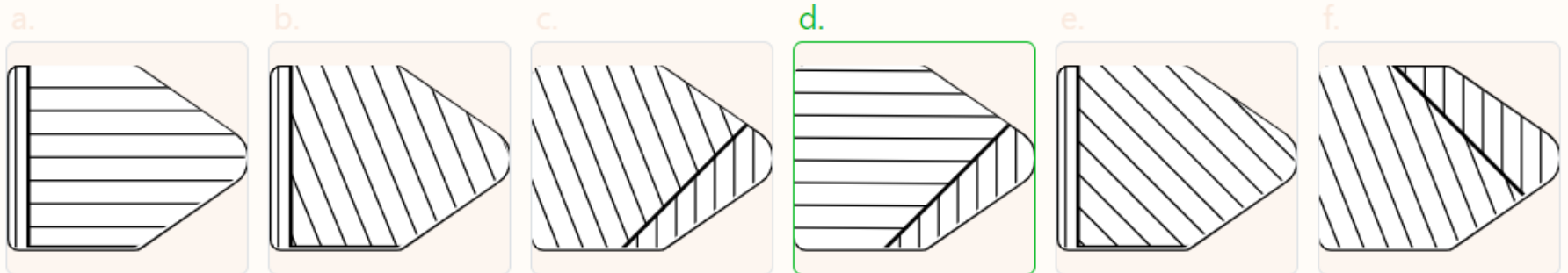


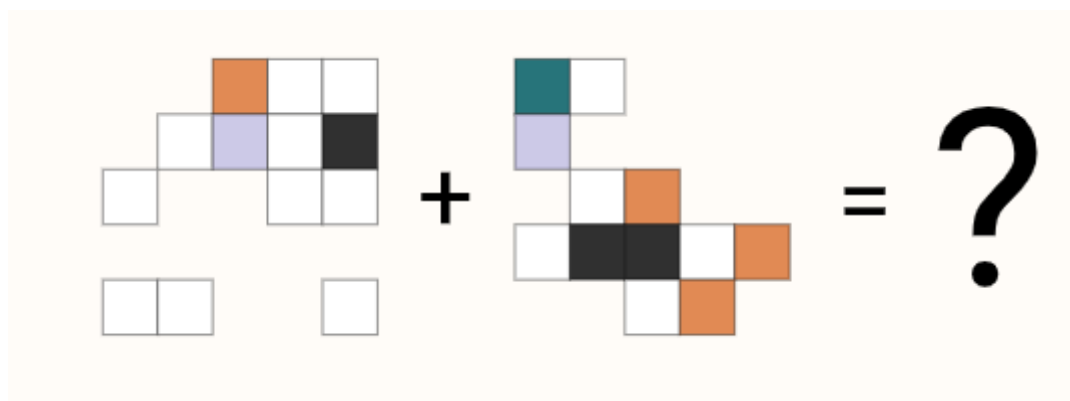
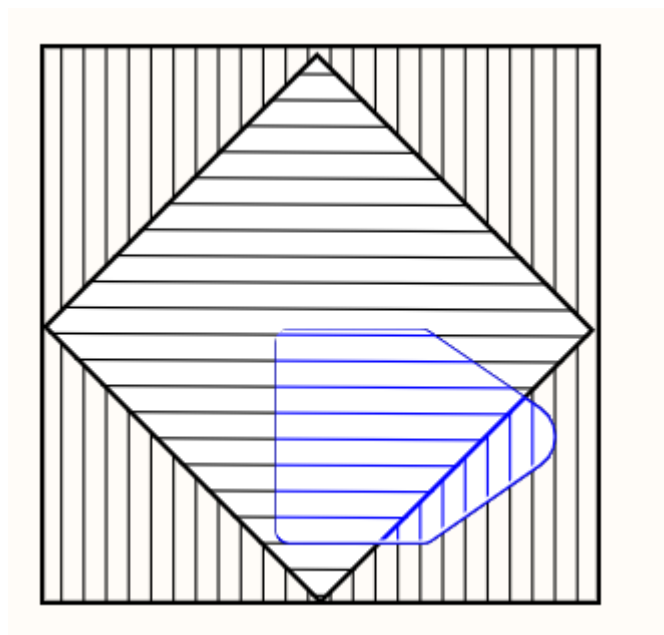
f.





15. Which figure should replace the white area?

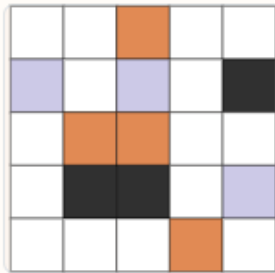




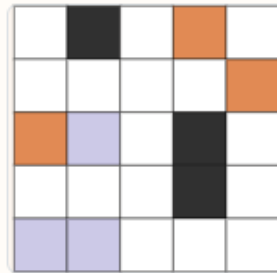
16.

Which figure should replace the question mark?

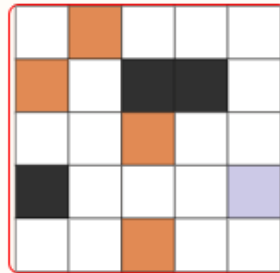
a.



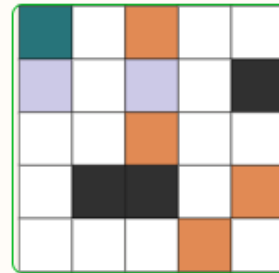
b.



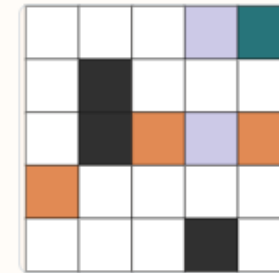
c.



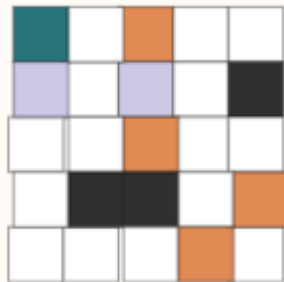
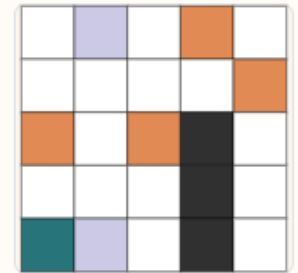
d.

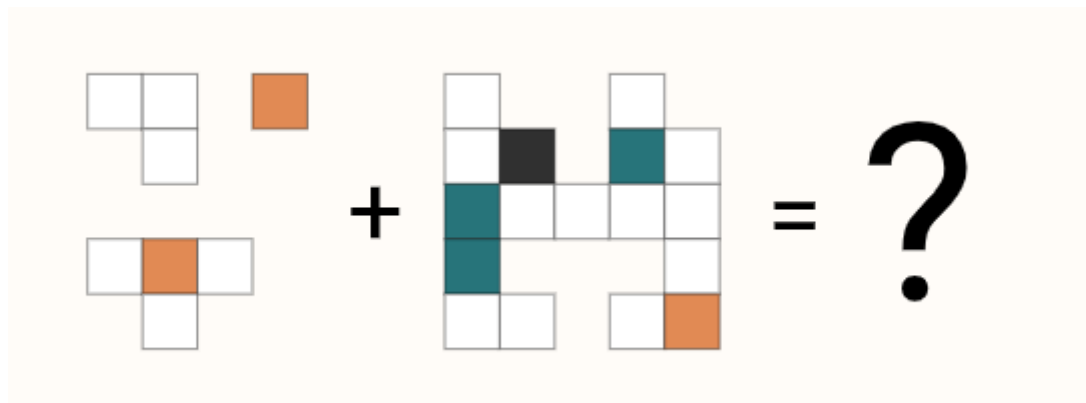


e.



f.

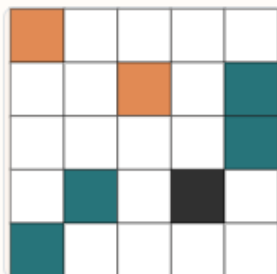




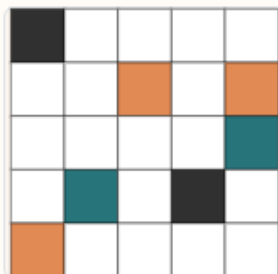
17.

Which figure should replace the question mark?

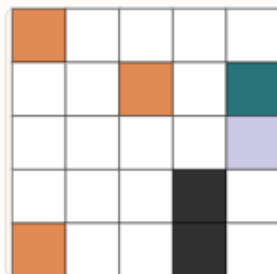
a.



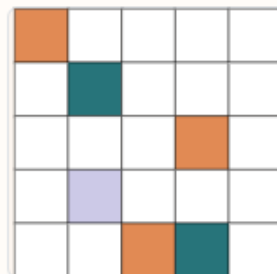
b.



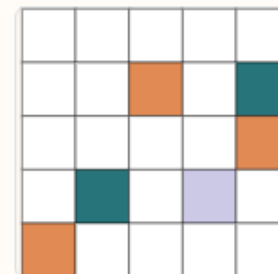
c.



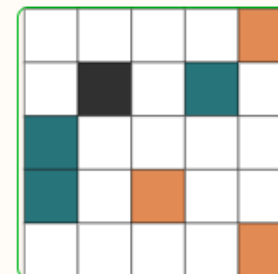
d.

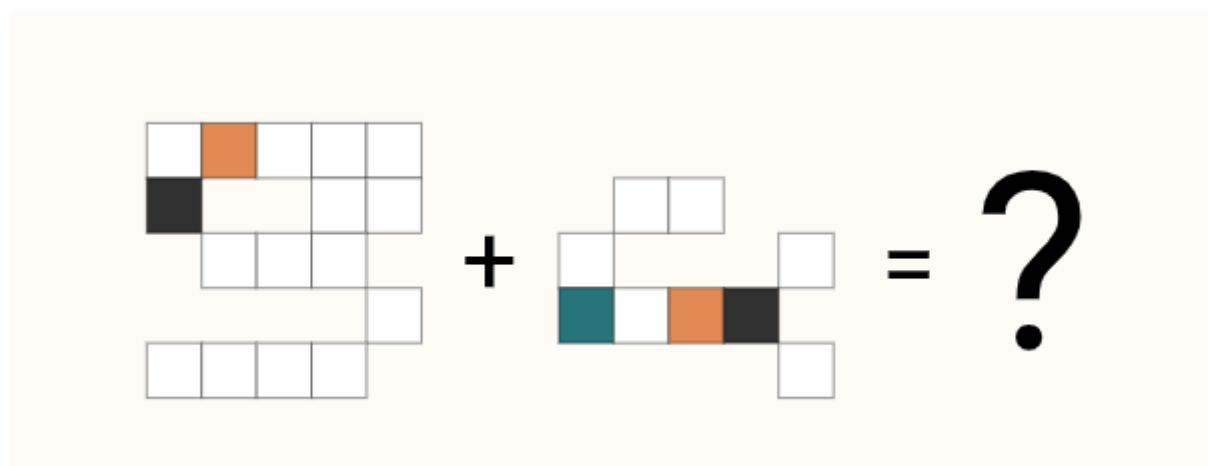
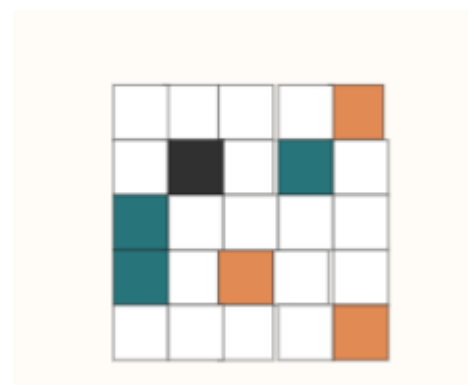


e.



f.

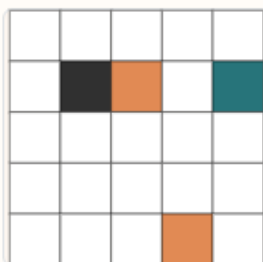




18.

Which figure should replace the question mark?

a.



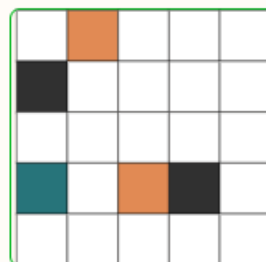
b.



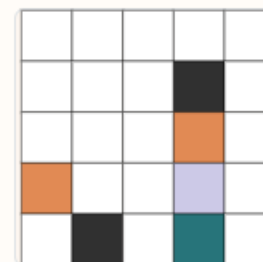
c.



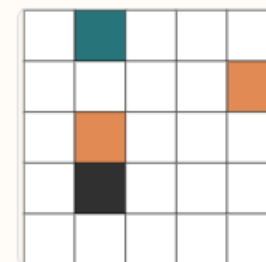
d.

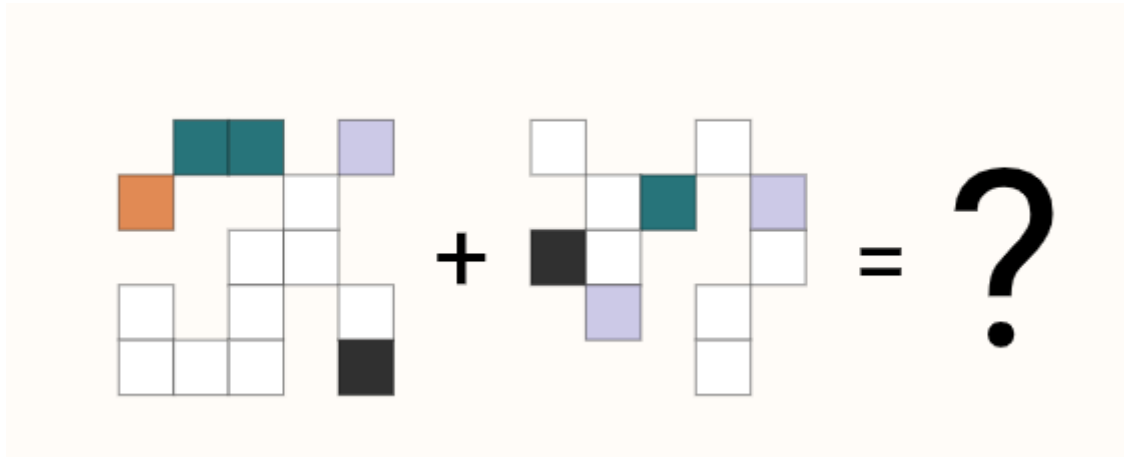


e.



f.





19.

Which figure should replace the question mark?

a.

purple	purple			black
teal	orange			
teal		purple	purple	
	orange	black		

b.

purple	purple			
purple	teal			
teal			purple	
	orange	black		

c.

purple				black
teal				
	teal			
teal			purple	
	orange	teal		

d.

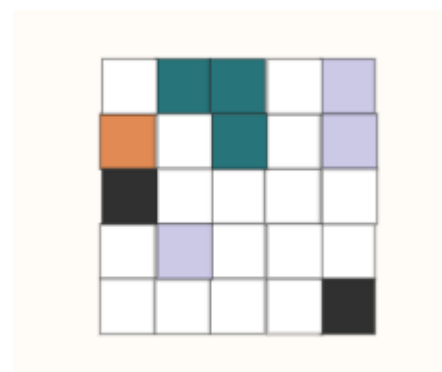
black				
			purple	
	teal			black
purple		teal		orange
purple				

e.

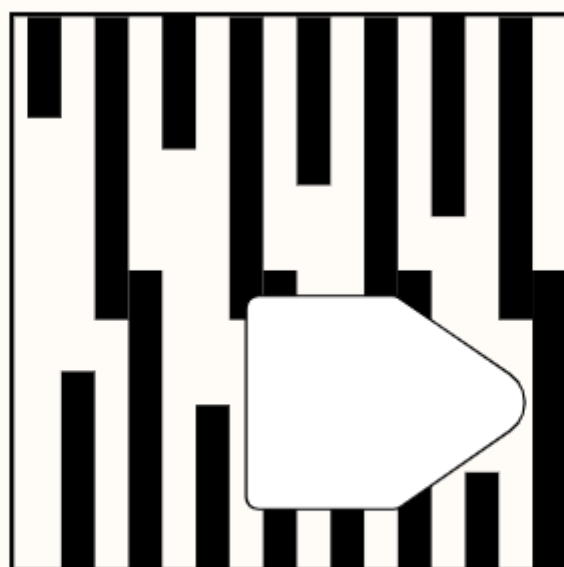
purple	purple			black
		teal		
teal	teal			
			purple	
	orange	black		

f.

	teal	teal		purple
orange		teal		
black				
	purple			
				black

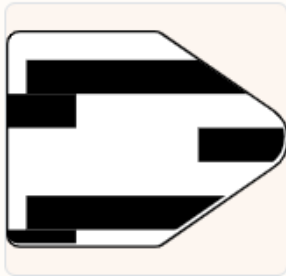


20.

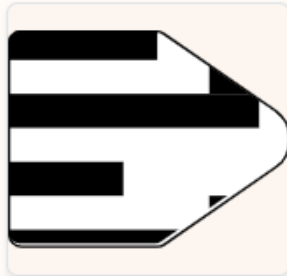


Which figure should replace the white area?

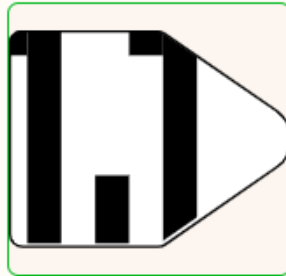
a.



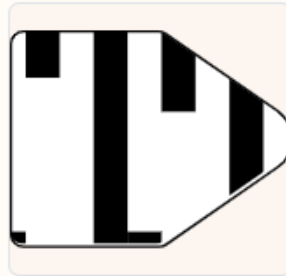
b.



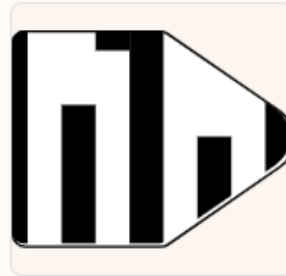
c.



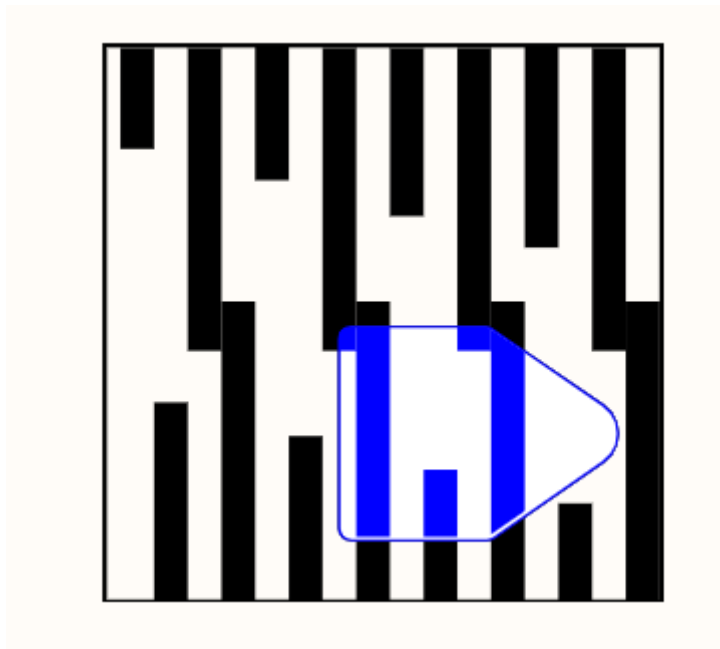
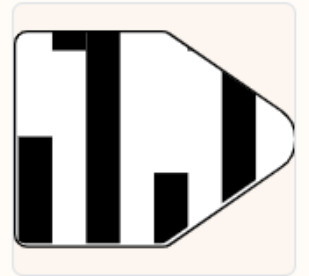
d.



e.



f.



-12 -20 -19 -29 -37 -36 ?

What is the next number in this sequence?

21.

a.

-12

b.

-54

c.

14

d.

-61

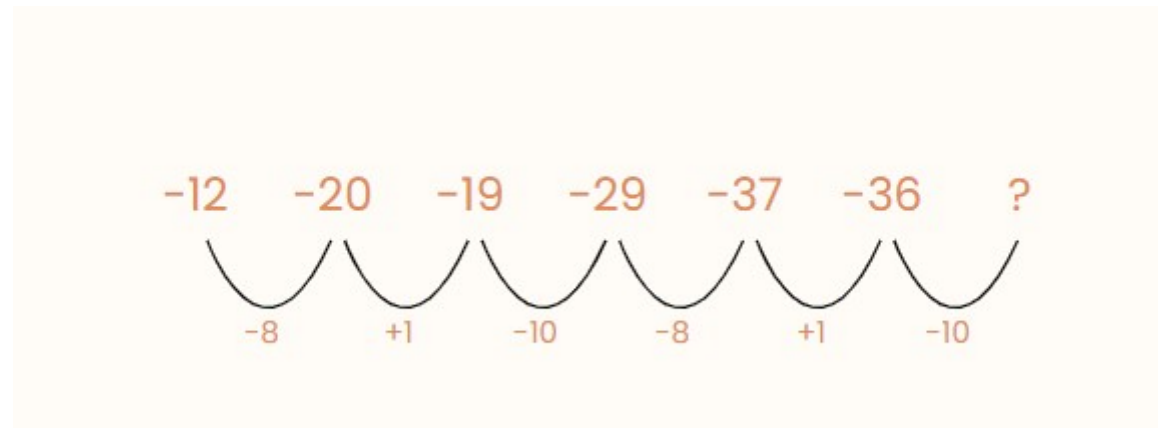
e.

-23

f.

-46

There is a varied pattern here. In the first step the transformation is -8, then the transformation is +1, then the transformation is -10 and then the transformation is -8 again.



22.

If

doters = 038671

Then

sorted = ?

Which sequence should replace the question mark?

a.

167380

b.

137860

c.

078316

d.

678013

e.

731860

f.

708613

Explanation

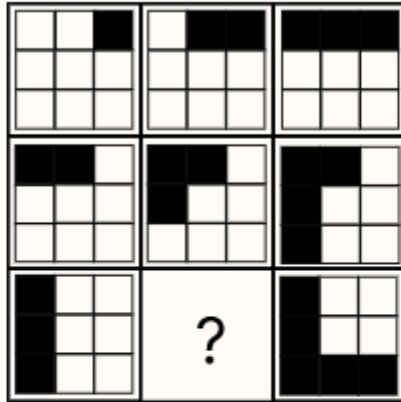
```
d = 0  
o = 3  
t = 8  
e = 6  
r = 7  
s = 1
```

```
==> doters = 038671  
==> sorted = 137860
```

Explanation

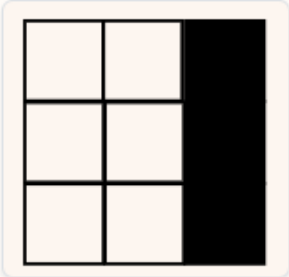
```
d = 0  
o = 3  
t = 8  
e = 6  
r = 7  
s = 1
```

```
==> doters = 038671  
==> sorted = 137860
```

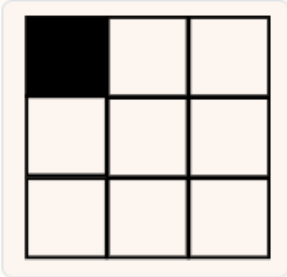


Which figure should replace the question mark?

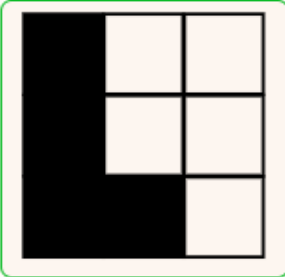
a.



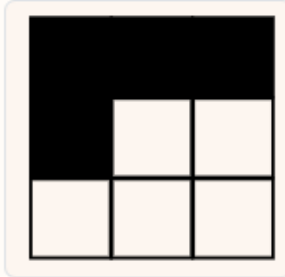
b.



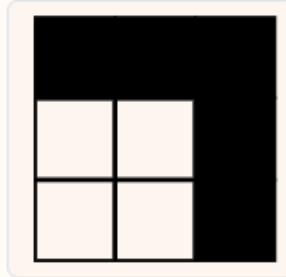
c.



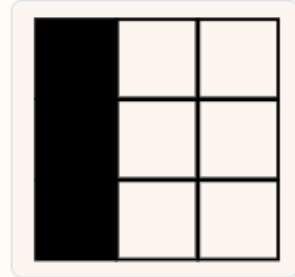
d.



e.



f.



From top to bottom the number of black blocks increases with 1 each step. The 'end of the figure' moves 1 step counterclockwise each step.

24.